JVC

CU-VD40U

DVD Burner
INSTRUCTIONS

Graveur de DVD
MANUEL D'UTILISATION

Grabador de DVD
MANUAL DE INSTRUCCIONES

DVD RW/R **RW 2** **COMPACT disc**

HDMI HIGH DEFINITION MULTIMEDIA INTERFACE **DOLBY DIGITAL**

For Customer Use:
Enter the Model No. and Serial No. (located on the bottom of the burner) below. Retain this information for future reference.
Model No.

Serial No.

LYT1752-001A

This burner enables DVDs of videos recorded with the JVC Hard Disk Camera to be created without using a PC.
- If you want to edit videos recorded with the camera and create your original DVDs, use the software provided with the camera for editing and creating DVDs.
- The provided data writing software Power2Go 5.5 Lite can be used for writing data. However, it cannot be used to edit videos or create DVDs.
- The burner does not include support for Macintosh.

Dear Customer,
Thank you for purchasing this burner. Before use, please read the safety information and precautions contained in pages 2 and 3 to ensure safe use of this product.

Safety Precautions

IMPORTANT:
In the event that any of the following occur, remove the plug and make a request for repair to the dealer.
- Smoke or abnormal odor is emitted
- Damage from being dropped
- Water or an object enters inside

CAUTION:
A UNIT IS A CLASS 1 LASER PRODUCT. HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE UNIT CORRECTLY AS INSTRUCTED.
WHEN THIS UNIT IS PLUGGED INTO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.
CLASS 1 LASER PRODUCT
REPRODUCTION OF LABELS
WARNING LABEL INSIDE OF THE UNIT

CAUTION CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. CAUTION LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.(EN)	ATTENTION EMET UN RAYONNEMENT LASER DE CLASSE 1M LORQUE OUVERT, NE PAS REGARDER DIRECTEMENT À TRAVERS DES INSTRUMENTS D' OPTIQUES. (FR)	ADVARSEL KLASSE 1 M-LASERSTRÅLING NÅR ÅPNET, IKKE SE DIREKTE INN I OPTISKE INSTRUMENTER. (NO)	ADVARSEL KLASSE 1 M LASERSTRÅLING NÅR APPARATET ÅBNES. KIG IKKE DIREKTE PÅ STRÅLEN MED OPTISKE INSTRUMENTER. (DA)	VARO! LUOKAN 1 M LASERSÄTEILY LAITTEEN SISÄLLÄ, ÄLÄ KATSO SÄTEESEEN SUORAAN OPTISILLA LAITTEILLA. (FI)	VARNING KLASS 1 M LASERSTRÅLNING NÄR DEN ÄR ÖPPEN, TITTA INTE DIREKT PÅ DEN MED OPTISKA INSTRUMENT, (SW) LP41334-001A

This unit applies to the standard "IEC60825-1:2001" for laser products.

The socket-outlet shall be installed near the equipment and shall be easily accessible.

ATTENTION:
This unit contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the unit off and unplug the mains power cord. Then plug it in again and turn the unit on. Take out the disc. After checking the disc, operate the unit as usual.

CAUTION:
To avoid electric shock or damage to the unit, first firmly insert the small end of the power cord into the AC Adapter until it is no longer wobbly, and then plug the larger end of the power cord into an AC outlet.
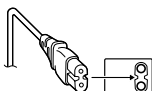
If malfunctioning occurs, stop using the unit immediately and consult your local JVC dealer.

Caution on Replaceable lithium battery
The battery used in this device may present a fire or chemical burn hazard if mistreated.
Do not recharge, disassemble, heat above 100℃ or incinerate.
Replace battery with Panasonic (Matsushita Electric), Sanyo, Sony or Maxell CR2025.
Danger of explosion or Risk of fire if the battery is incorrectly replaced.
- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.

For USA-California Only
This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate

WARNING:
Batteries shall not be exposed to excessive heat such as direct sunshine, fire or the like.

Declaration of Conformity (for owners in the U.S.A.)
Model Number	: CU-VD40U
Trade Name	: JVC
Responsible party	: JVC AMERICAS CORP.
Address	: 1700 Valley Road Wayne, N. J. 07470
Telephone Number	: 973-317–5000

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

(For owners in the U.S.A.)
Changes or modifications not approved by JVC could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/ TV technician for help.

(For owners in Canada)
- FOR USE WITH MODEL NO. AP-V400U (AC ADAPTER).
- POUR UTILISER AVEC MODELE AP-V400U (ADAPTATEUR CA).
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

The I/⏻ button does not completely shut off mains power from the unit, but switches operating current on and off. "⏻" shows electrical power standby and "I" shows ON.

Safety Precautions for the Burner

Be sure to observe the following precautions. Failing to do so may result in electric shock, fire, injury, or malfunction.

- Do not disassemble, dismantle, or modify the equipment. Requests for repair and inspection should be made to the dealer.
- Do not insert metal or combustible objects or pour water or other liquids inside the burner.
- Turn off the power when connecting equipment.
- Remove the plug when the burner will not be used for a prolonged time or prior to cleaning (electricity flows through the equipment even when the power is off).
- Do not block the ventilation holes of the burner.
- Do not use where there is condensation. Suddenly carrying the burner from a cold location to a hot location may result in the formation of drops, which may cause a malfunction or failure.
- Do not cause the burner to vibrate when discs are in.

Safety Precautions for Accessories

- When using the AC adapter, the power cord, and the USB cable, be sure to observe the following precautions. Failing to do so may result in electric shock, fire, injury, or malfunction.
  - Do not insert or remove the plug when your hands are wet.
  - Fully insert the plug into the outlet.
  - Keep dust and metal objects away from the plug.
  - Do not damage the cord.
  - Place the cord where it will not trip someone up.
  - Do not use when thunder can be heard.
  - Do not dismantle.
  - Do not use for any product other than this one.
- Do not play the provided CD-ROM with an audio player. Doing so may damage the circuits or speakers.

Safety Precautions for Discs

Do not use the following discs.
- Cracked discs
- Deeply scratched discs

Installation

Do not install in any of the following locations.
- Humid location
- Location of 60 °C or above
- Location subject to direct sunlight
- Location where overheating is likely
- Dusty or smoky locations
- Locations subject to oily smoke or steam such as a kitchen counter or beside a humidifier
- Unstable location
- Bathroom
- Dusty places
- Slanted location

ATTENTION:

On placing the unit:
Some TVs or other appliances generate strong magnetic fields. Do not place such appliances on top of the unit as it may cause picture disturbance.

When moving the product:
Press I/ᶜᵗˡᵏ to turn off the power, and wait at least 30 seconds before unplugging the power cord. Then, wait at least 2 minutes before moving the product.

Cleaning Procedure

IMPORTANT:

- Be sure to unplug the burner before beginning cleaning.
- Do not use liquid or aerosol cleaners.
- Ensure that no moisture or liquid comes into contact with the drive during cleaning.

Exterior of the Burner:
Wipe dirt off with a dry cloth.

Disc Tray:
Wipe off dirt with a soft dry cloth.

Disc:
Gently wipe from the inner edge to the outer edge with a soft cloth.

Storage:
Make sure that discs are kept in their cases. If discs are piled on top of one another without their protective cases, they can be damaged. Do not put discs in a location where they may be exposed to direct sunlight, or in a place where the humidity or temperature is high. Avoid leaving discs in your car!

Region Codes

Region codes are numbers for restricting DVD video playback. The world is separated into six regions and each region is identified by a number. If the number for a disc does not match the number for the player, the disc cannot be played on the player. (The initial region code is indicated on the label on the bottom of the burner.)

Disclaimer

JVC accepts no liability whatsoever for loss of data resulting from inappropriate connections or handling.

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- Other company and product names mentioned herein are registered trademarks and/or trademarks of their respective holders.

# Enjoy High Definition Images Copied to DVDs!

Copying to DVD

1 *Connect.*

Audio/Video cable
(provided)

USB
(provided)
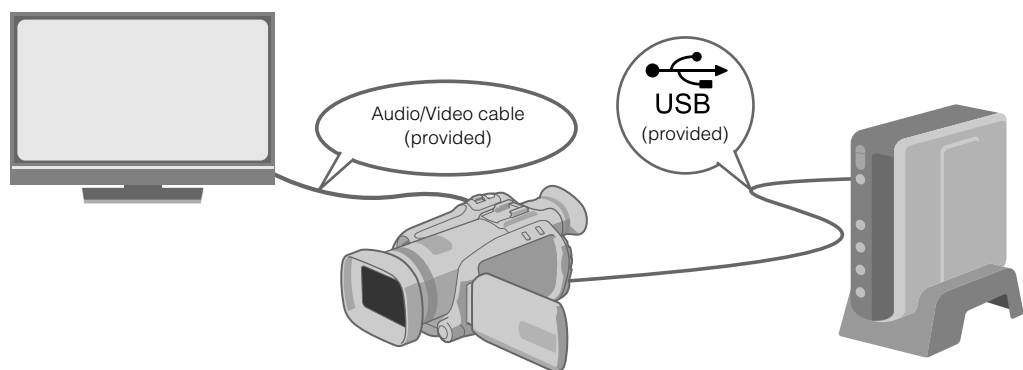
2 *Select the desired copy method.*

The following 6 methods of copying are available.

Methods of copying	Types of copy operation		GZ-HD7U instruction manual
Copy all (NORMAL BACK-UP)		Copy all images shot.	☞Page 48
		Copy only newly shot images.	☞Page 48
Copy only favorite scenes (SELECT BACK-UP)		Search and copy by date.	☞Page 49
		Search and copy by scenes.	☞Page 49
		Search and copy by events.	☞Page 49
		Copy using playlists.	☞Page 49

● The date for videos created from playlists will be the same as the date the DVD is created.

3 *Copy to DVD.*

● For details on finalizing, refer to pages 48 to 50 of the GZ-HD7U instruction manual.
● Time taken for copying will be long if there are a large number of files.

DVD 5
DVD(DL) 3

EXECUTE
EXECUTE AND FINALIZE
CANCEL

◆SELECT ◆SET   MENU:TOP

Select and set on "EXECUTE AND FINALIZE".

● Additional recordings are not possible after finalizing.

To add new recordings

● Select and set on "EXECUTE" instead of "EXECUTE AND FINALIZE".
● Discs that are not finalized cannot be played back on PC or this burner.
  To play back, connect as shown in the diagram above, and refer to pages 48 to 50 of the GZ-HD7U instruction manual.

Viewing Images Copied to DVD on the TV

➊ *Connect.*

Audio/Video cable
(provided)
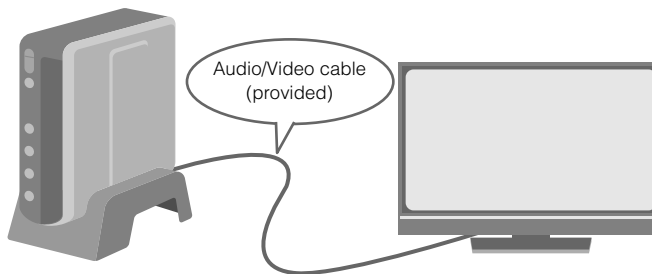
① Disconnect the USB cable and turn off this burner.

② Connect the burner to the TV.

● To view high definition images, connect using an optional HDMI cable or component video cable.

➋ *Play back.*

① Turn on the burner.

● Confirm that the power lamp is lighted in orange. If the lamp is not lighted in orange, disconnect the USB cable then turn off and on the power again.

Approx. 20 seconds later
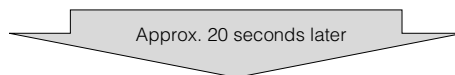
② Press the open/close (▲) button to eject the tray.

③ Insert a finalized disc.

④ Press the open/close (▲) button to close the tray.

● The following screen appears.

PLAY VIDEO   PLAY IMAGE
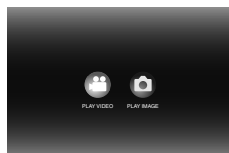
⑤ Play back.

● For details on playback, refer to page 15 of this instruction manual.

Before erasing data from GZ-HD7U

● Confirm that the data has been copied to DVD before erasing.

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Contents

DVD Burner
CU-VD40U
ENGLISH

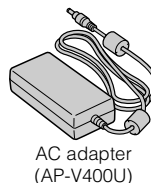# Getting Started

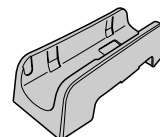## Accessories

Power cord

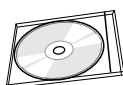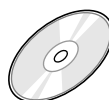USB cable

Audio/Video cable

AC adapter (AP-V400U)

Stand

Remote control (RM-V41U)

DVD-ROM

Recording disc (DVD-R DL) (For use with high definition Everio Camera. Cannot be used with an Everio Camera.)

Lithium Battery (CR2025) Pre-installed in the remote control unit.

CAUTION:
● Do not use the provided AC adapter and power cord with other devices. In addition, do not use AC adapter, power cord and USB cable other than those provided with this burner. Doing so may result in electric shock or fire.
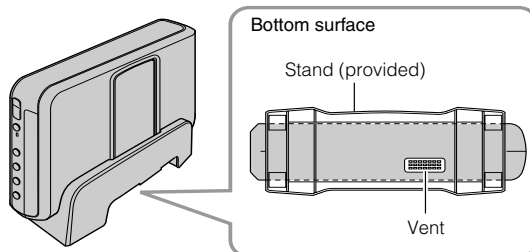
Placing the Burner

■ Horizontal orientation

● Take note of the top and bottom of the burner and place it in the horizontal orientation.

■ Vertical orientation

● When using in the vertical orientation, align the vent of the burner with that of the provided stand, then place and fix the burner securely on the stand.
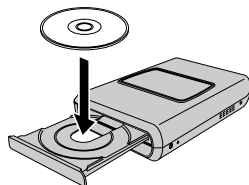
Bottom surface
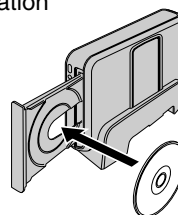
Stand (provided)

Vent

Inserting a Disc

When handling a disc, be sure not to touch the playback/recording side of the disc.

Use only the [⏏] button on the burner or the remote control to eject the disc tray. If you open the tray manually, there is a risk of the disc dropping out or getting caught.

■ Horizontal orientation
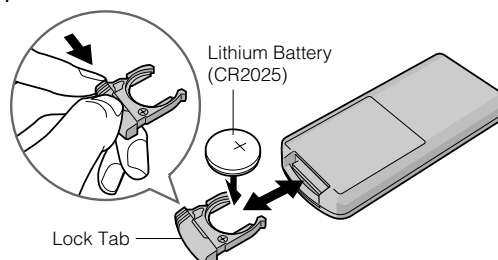
■ Vertical orientation

Preparing the Remote Control

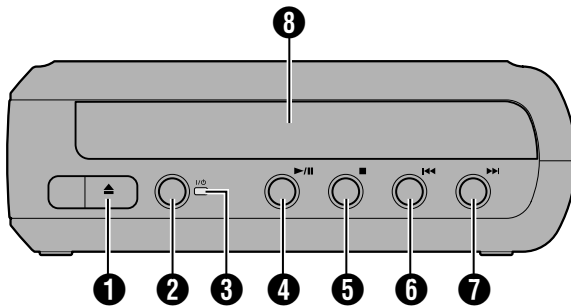A battery is included inside the remote control at the time of purchase. Remove the insulation sheet before use.

■ To Reinsert the Battery

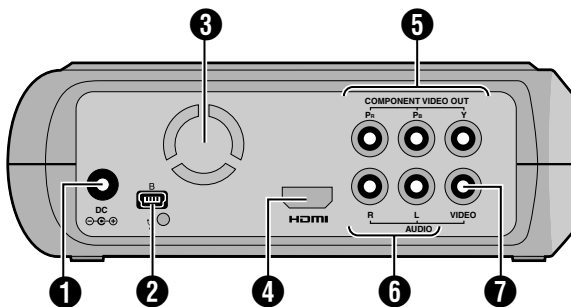● Pull out the battery holder by pressing the lock tab.

Lithium Battery (CR2025)

Lock Tab

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Guide to Parts and Controls

Front

❶ Open/Close Button (⏏)
❷ Power Button (I/⏻)
❸ Power Lamp
  Green light:
    When connected to Everio camera or PC.
  Orange light:
    During playback.
❹ Play/Pause Button (▶/Ⅱ)
❺ Stop Button (■)
❻ Previous Button (I◀◀)
❼ Next Button (▶▶I)
❽ Disc Tray

Rear

❶ DC Connector
❷ USB Connector
❸ Cooling Fan
❹ HDMI Terminal
❺ COMPONENT VIDEO OUT Connectors
❻ AUDIO output Connectors
❼ VIDEO output Connector

Remote control
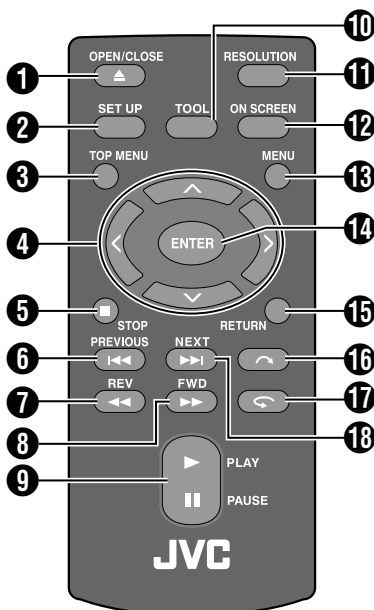
❶ OPEN/CLOSE Button (⏏)
❷ SET UP Button
❸ TOP MENU Button
❹ Selection keys (∧/∨/〈/〉)
❺ STOP Button (■)
❻ PREVIOUS Button (I◀◀)
❼ REV Button (◀◀)
❽ FWD Button (▶▶)
❾ PLAY/PAUSE Button (▶/Ⅱ)
❿ TOOL Button
⓫ RESOLUTION Button
⓬ ON SCREEN Button
⓭ MENU Button
⓮ ENTER Button
⓯ RETURN Button
⓰ Skip Button (⌒)
⓱ Replay Button (↺)
⓲ NEXT Button (▶▶I)

Connecting to TV

To view high definition images, connect using an optional HDMI cable or component video cable.

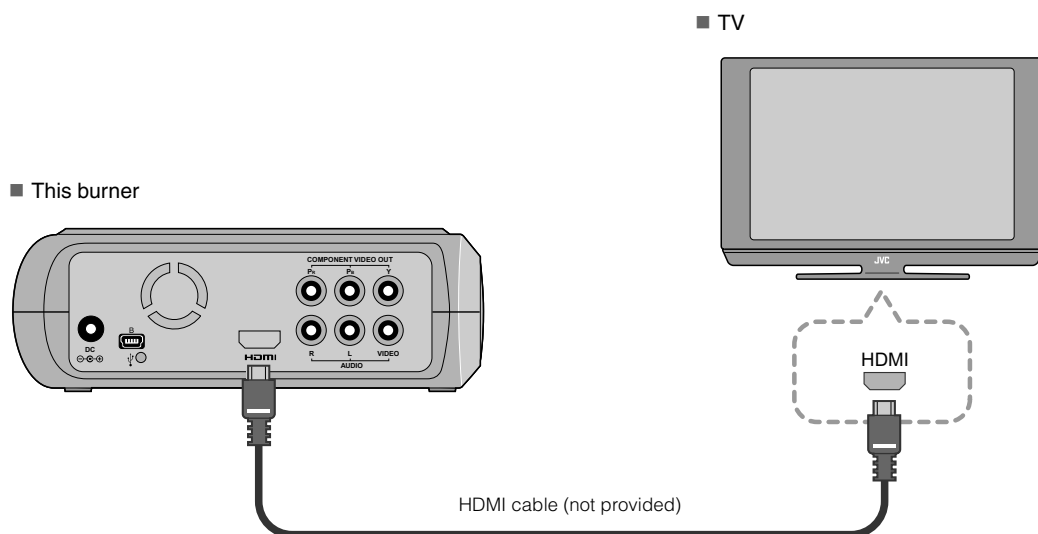## Connecting to a TV with HDMI Input Terminal

■ TV

■ This burner

COMPONENT VIDEO OUT

P$_R$ P$_B$ Y

DC

R   L   VIDEO

AUDIO

HDMI

HDMI

HDMI cable (not provided)

NOTES:
- Images can only be displayed on a High-bandwidth Digital Content Protection (HPCP) monitor. (☞P24)
- When images do not appear normally, set the "HDMI COLOR SETTING" in the setting menu to "RGB". (☞P21)

Connecting to a TV with Component Video Input Connectors

Component video cable
(not provided)

■ TV

■ This burner

OMPONEN VIDEO O

P$_R$ P$_B$ Y

DC

R   VIDEO

A DIO

AUDIO IN

C$_R$/P$_R$ C$_B$/P$_B$ Y   L   R

Component video cable
Y=Green / P$_B$=Blue
P$_R$=Red

Audio cable
L=White / R=Red

Audio cable (not provided)

9
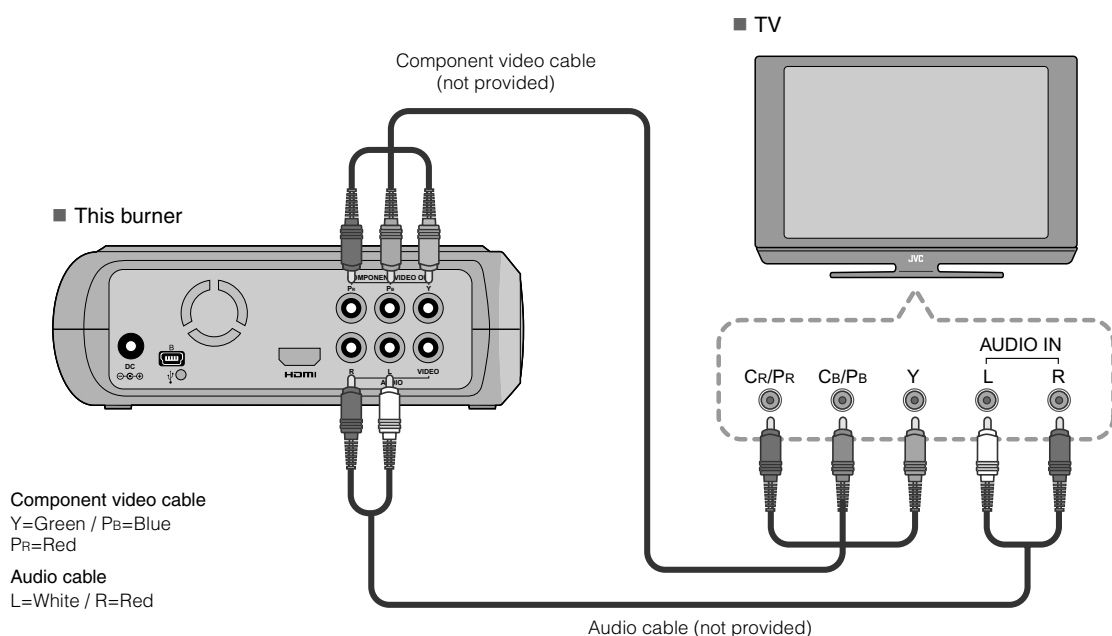
Connecting to a TV with Video/Audio Input Connectors

Connect the output connectors of the burner to the input connectors of the TV with the provided Audio/Video cable.

■ TV

■ This burner

Audio/Video cable
R=Red
L=White
VIDEO=Yellow

AUDIO IN
L   R   VIDEO IN

Audio/Video cable (provided)
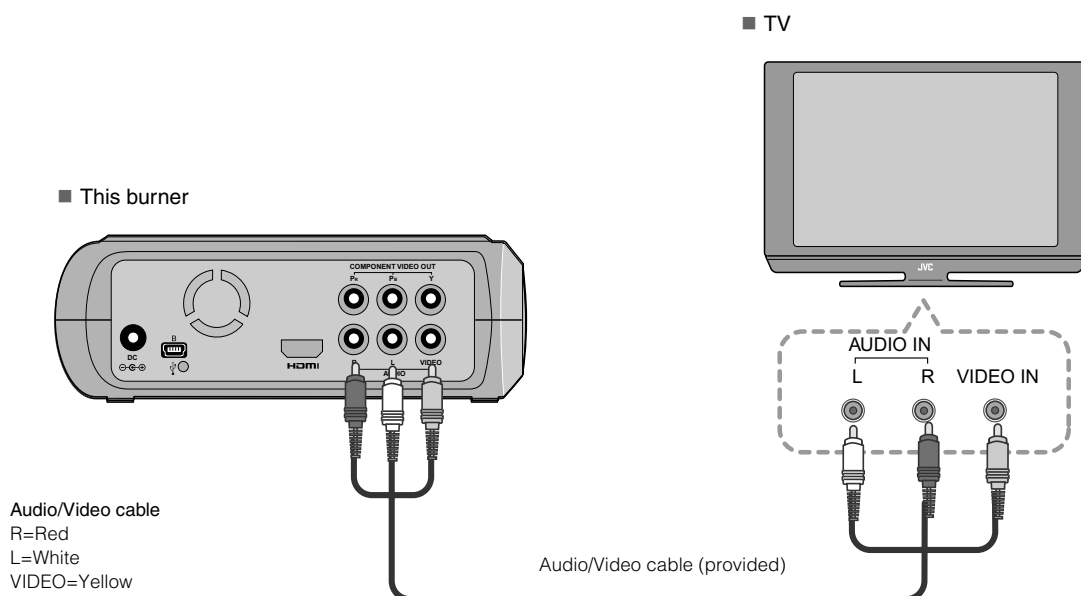
Connecting to a TV with DVI Input Terminal
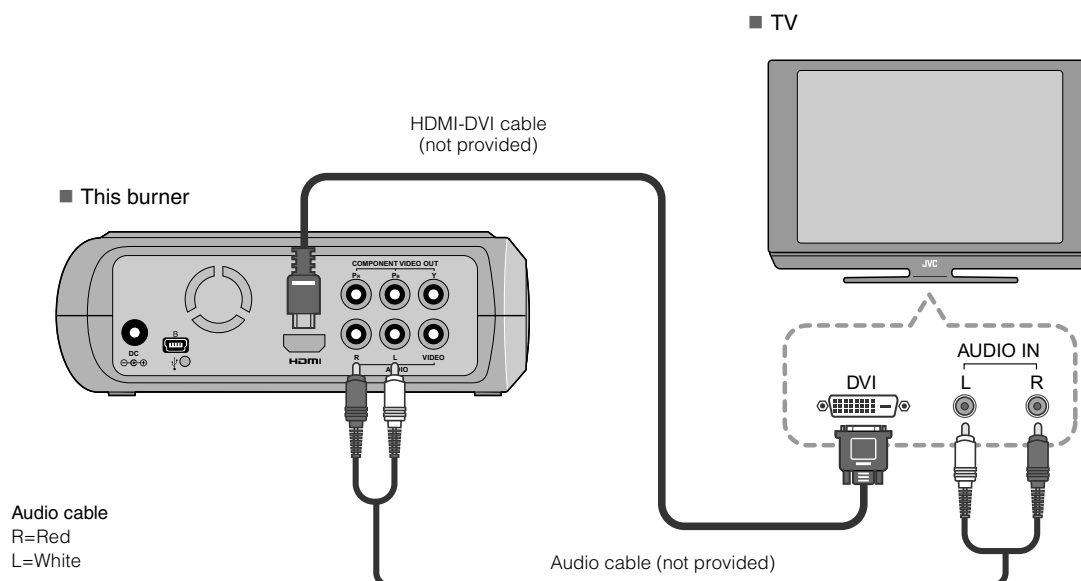
■ TV

HDMI-DVI cable
(not provided)

■ This burner

Audio cable
R=Red
L=White

DVI   AUDIO IN
L   R

Audio cable (not provided)

NOTES:

● Images can only be displayed on a High-bandwidth Digital Content Protection (HPCP) monitor. (☞P24)
● When black-and-white images are not clear, set the "HDMI ENHANCE SETTING" in the setting menu to "ON". (☞P21)

Saving Everio Camera Images to DVD

You can easily create data discs by connecting the burner to an Everio camera.

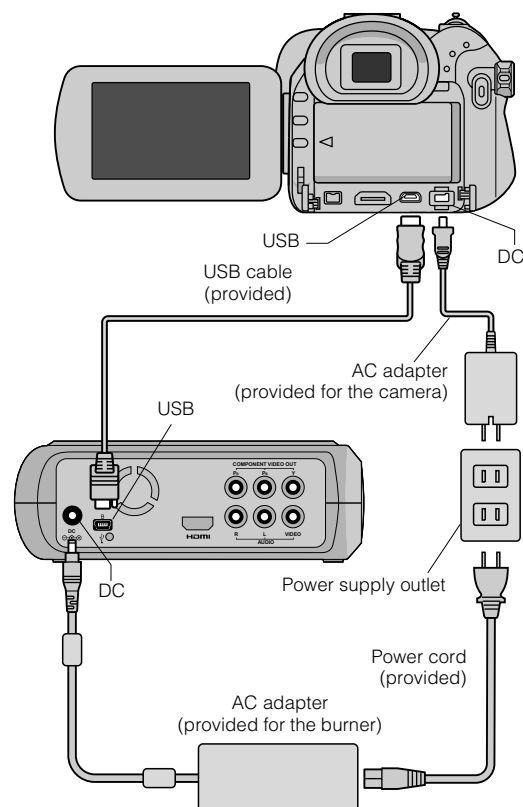## To Connect

PREPARATIONS:
- Power/Mode switch (Everio camera) : Off
- Power switch (This burner) : Off

USB

USB cable
(provided)

DC

AC adapter
(provided for the camera)

USB

COMPONENT VIDEO OUT

HDMI   AUDIO   VIDEO

DC

Power supply outlet

Power cord
(provided)

AC adapter
(provided for the burner)

- The positions of DC connector and USB connector and indications (On/Off) of the Power/Mode switch may be different for some Everio camera models.
- During saving, there is no output from the HDMI terminal or COMPONENT VIDEO OUT connectors of this burner. The video image can be displayed from the Everio camera's LCD monitor or by connecting the Everio camera to a TV.

Creating Data/DVD Video Discs

CAUTION:
- When recording an event (such as athletics meet) with an Everio camera, it is advisable to use the same recording mode throughout. Changing the recording mode will cause an event to be divided and saved into two or more folders.
- When there is a disc in the burner, do not subject the Everio camera or burner to vibration or mechanical shock.

PREPARATIONS:
- Power/Mode switch (Everio camera) : On
- Power switch (This burner) : On

① Press the [OPEN/CLOSE] button after the menu appears on the Everio.

- The disc tray opens.

② Insert a disc.

- We recommend you to use a compatible disc. (☞P25)

③ Press the [OPEN/CLOSE] button.

- The disc tray closes.

④ Create data/DVD video discs.

- Refer to the Everio camera instruction manual on how to create data/DVD video discs.

NOTES:
- Data discs cannot be played on DVD recorders/players.
- DVDs created with GZ-MG series Everio camera equipped with the direct DVD creation function are DVD video discs, not data discs. (For details, refer to the instruction manual of the Everio camera.)
- A disc cannot be ejected while data is being written to the disc. Wait until writing finishes.
- The remote control cannot be operated when the burner is connected to the Everio camera via USB cable.
- A considerable amount of time is required if over 1000 video or still images are being saved to DVD, therefore it is advisable to back up in advance.
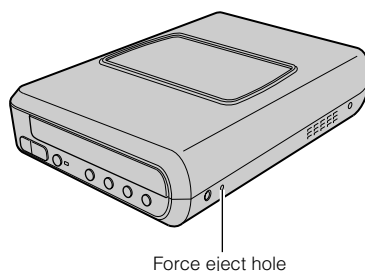
When a disc cannot be ejected

When a disc cannot be ejected with the [OPEN/CLOSE] button, use the following procedure to eject by force.

1 Turn off the power.

2 Insert a thin rod of about 10 cm long into the force eject hole located on the right side of the burner. The disc tray will be ejected for about 1 cm.

3 Pull out the disc tray manually and take out the disc.

Force eject hole

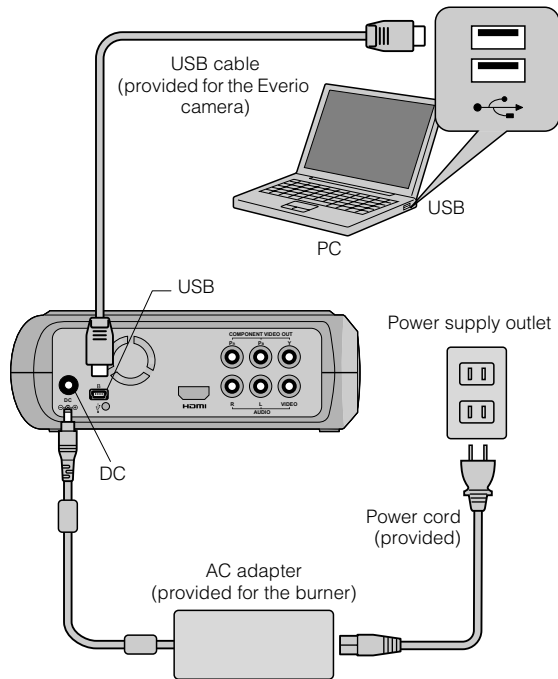- Be sure to place the burner horizontally.

11

Saving PC Images to DVD

This burner can be used as a DVD burner by connecting it to a PC. Images edited on a PC can also be saved to a DVD by using the provided software.

To Connect

PREPARATIONS:
- Power switch (This burner) : Off
- PC Power : Off

USB cable
(provided for the Everio camera)

USB

PC

USB

Power supply outlet

COMPONENT VIDEO OUT

HDMI

AUDIO

R L VIDEO

DC

Power cord
(provided)

AC adapter
(provided for the burner)

Saving to a DVD

① *Turn on the burner and the PC.*

- Install the CyberLink Power2Go 5.5 Lite software if you have not done so.

② *Insert a disc.*

- We recommend you to use a compatible disc.
(☞P25)

③ *Use Power2Go to save to a DVD.*

1. Use Power2Go to create a folder.
   - You can create the desired folder names; however do not use "EVERIO_V" or "EVERIO_S" as the folder name.
   - Use half-width alphanumeric characters when entering the folder or file names. You can enter up to 40 half-width characters.
2. Set the file system of the data tab in the Power2Go setup menu to "UDF1.5".
3. Copy files such as MPEG, JPEG and TPD into the folder.

- For details on how to save, refer to the Power2Go User's guide, Help and ReadMe. You can view User's guide, Help and ReadMe from the start menu of the PC.
- This burner cannot be used to write files into CD-R or CD-RW. Also, it does not respond to all the functions of Power2Go 5.5 Lite.
- To get customer support and to register the software, you need the following product key (CD-Key): PXNVM-NWE4G-XQD9Q-CU9DX-3FQFN-NAKUS
- Power2Go 5.5 Lite does not support conversion of audio files to MP3 format.
- When the "Enter Activation Key" screen appears while using Power2Go 5.5 Lite, close the screen without entering the activation key.

Removing USB Cable from PC

1 Carry out removing of hardware on the PC.

2 Remove the USB Cable.

Computers That Can Be Used

CyberLink Power2Go 5.5 Lite can be used on computers satisfying the following conditions.

■ Operating system:

Windows® XP Home Edition [XP] (pre-installed)
Windows® XP Home Professional [XP] (pre-installed)

■ Connector:

USB 2.0/1.1 connector
- If you use USB1.1 cable, it will take approximately 3 hours to write one DVD.

■ CPU:

Intel® Pentium® III, at least 800 MHz
(Intel® Pentium® 4, at least 2 GHz recommended)

■ RAM:

At least 128 MB (at least 256 MB recommended)

■ Free hard disk space:

At least 50 MB for installation
At least 5 GB recommended for making DVDs

■ Display:

Must be capable of displaying 800 × 600 dots

Installing CyberLink Power2Go 5.5 Lite

CAUTION:
- Do not play the provided CD-ROM in an audio player. It is not an audio CD. Playing this CD-ROM in an audio player will result in a loud high noise. It may also damage the circuit and speaker.

1 Insert the provided CD-ROM in the PC.

- The "Choose Setup Language" screen appears.

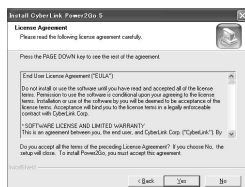### 2 Confirm the language and then click "OK".

- The following screen appears.

3 Click "Next".
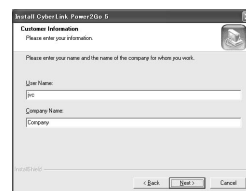
- The "License Agreement" screen appears.

4 Confirm the contents and then click "Yes".

- The "Customer Information" screen appears.

5 Enter the "User Name" and "Company Name" and then click "Next".

6 Follow the on-screen instructions.

- Installation starts. The "InstallShield Wizard Complete" screen appears.
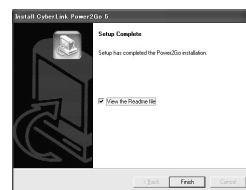
7 Click "Finish".

- The computer will restart and installation is completed.
- If the screen on the right does not appear, proceed to step 8.

8 Click "Finish".

- The "CyberLink Power2Go 5.5" Readme screen appears.

9 Read the contents of the Readme.

CyberLink Power2Go 5.5 Lite Contact Information

For information on CyberLink Power2Go 5.5 Lite or other products, use the following contact information.

■ Telephone/fax support

Location	Language	Office hours (Mon. to Fri.)	Phone #	Fax #
Germany	English / French / Spanish	9:00 am to 5:00 pm	+49-700-462-92375	+49-241-70525-25

■ Paid voice support

| Location	Language	Office hours (Mon. to Fri.)	URL
U.S.A.	English	1:00 pm to 10:00 pm CST	http://www.cyberlink.com/english/cs/support/

■ Support web/e-mail

| Language	URL/e-mail address
English	http://www.cyberlink.com/english/cs/support/new_site/support_index.html
French / Spanish	goCyberlink@aixtema.de

Folder Configuration

This shows the folder configuration when files are saved from a high definition Everio camera or a PC to DVD.

When video/still image files are saved from high definition Everio camera
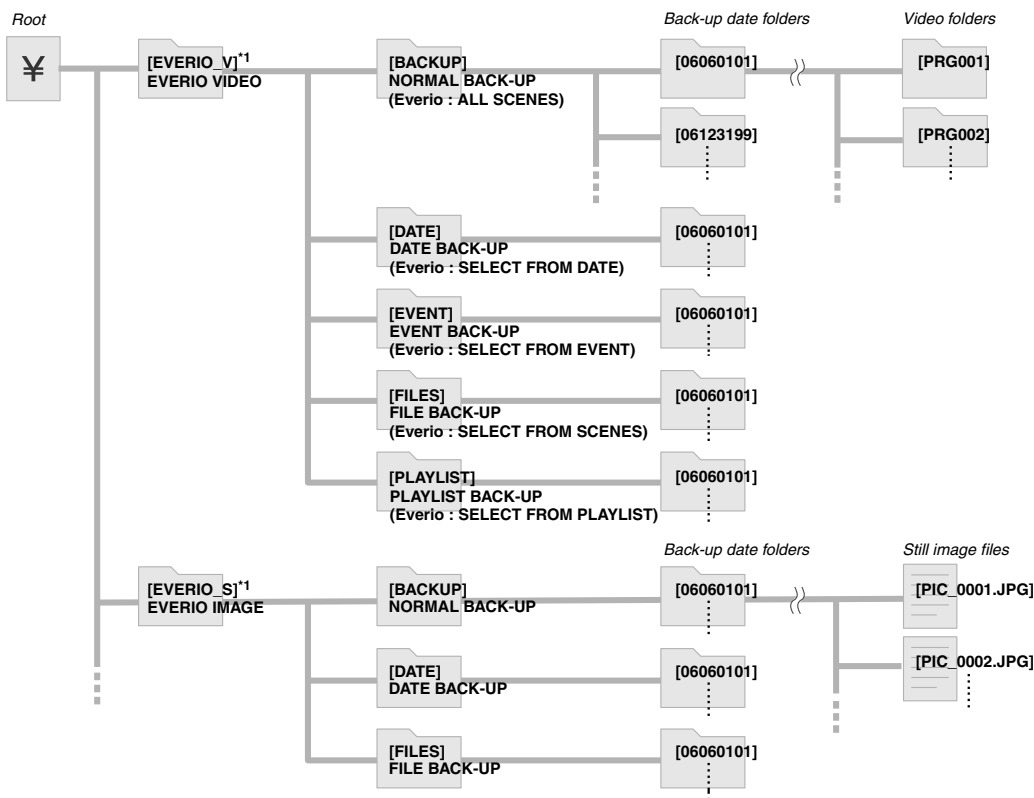
*1 Video and image files taken by high definition Everio camera that are saved to this burner will be saved in the "EVERIO_V" and "EVERIO_S" folders.

When desired folders/files are created and saved on a PC
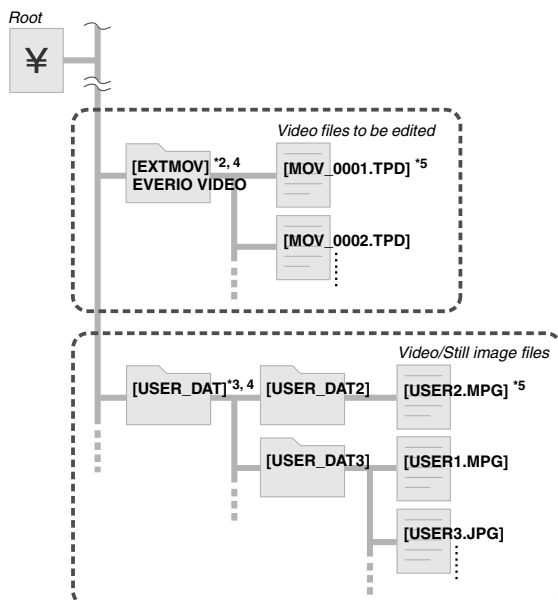
*2 Only high definition Everio video files (".TPD" files) edited on the PC can be saved in the "EXTMOV" folder.
  ● ".TPD" files can also be saved in folders created on the PC.

*3 Create folders with Power2Go and saved the desired video and/or still image files into the folders. You can use your preferred folder names and file names. (Shown as "USER DAT" in the illustration.)

*4 Use Power2Go to save the "EXTMOV" and "USER DAT" folders to DVD. (☞P12)

*5 Files with the extension ".TPD" are high definition Everio video files that are edited on the PC.
  Files with the extension ".MPG" are Everio video files that are edited on the PC. (For details, refer to "Data format (extension)" (☞P25).)

CAUTION:
● You can create the desired folder and file names, however do not use "EVERIO_V" or "EVERIO_S" as the folder name. In addition, use half-width alphanumeric characters when entering the folder or file names. You can enter up to 40 half-width characters.
● Folders can only be created up to 16 levels. Playback may be impossible if folders exceed 16 levels.

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Viewing Images Saved in DVD

This burner can play DVDs saved from an Everio camera or a PC.

Viewing Videos Saved from High Definition Everio Camera

■ To playback the image immediately after saving in DVD

1. Remove the USB cable. (☞P12)
2. Turn off the power of this burner.
3. Connect to TV and power on this burner.
   - Confirm that the power lamp on the burner is lighted in orange.
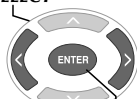   For details on connections, refer to "Connecting to TV" (☞P9, 10).

<Example>
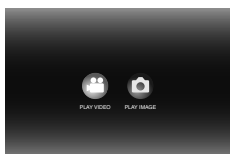When all videos shot on a high definition Everio camera are saved in DVD.

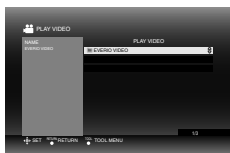### 1 *Insert a disc.*

2 *Select "PLAY VIDEO".*

1. SELECT

ENTER

2. CONFIRM

PLAY VIDEO   PLAY IMAGE

- The playback navigator appears.

3 *Select "EVERIO VIDEO".*

1. SELECT

ENTER

2. CONFIRM

- To playback videos saved from a PC, select "EDITED VIDEO". (☞P14)
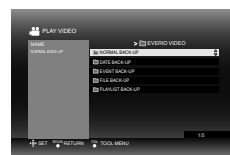- If you had created a desired folder on a PC, select that folder name.

CAUTION:
- Check the resolution setting if the image is not displayed. (☞P19)

4 *Select "NORMAL BACK-UP".*
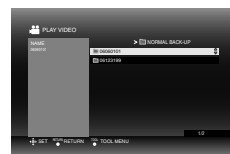
1. SELECT

ENTER

2. CONFIRM

- Files will be sorted automatically to the created folders, depending on the items selected in the "CREATE DVD" function of the high definition Everio camera. (☞P14)

5 *Select the date saved in DVD.*

1. SELECT

ENTER

2. CONFIRM

6 *Select the folder to be played.*

1. SELECT

ENTER

2. CONFIRM

- The files in the folder will be played sequentially.
- For details on playback operations, refer to "Buttons that can be used during playback" (☞P16).

CAUTION:
- There will be an approximately 0.5 seconds still image between each file.
- An approximately 2 seconds black screen will appear between each folder when you press the [◄◄] /[►►] buttons to select the folder to be played.

Buttons that can be used during playback

Button names		During video playback	During still image playback
▶ PLAY	PLAY	Pressing the button during pause or variable speed playback will play the video. ● You can also use the [ENTER] button.	Starts a slideshow. ● You can also use the [ENTER] button.
❚❚ PAUSE	PAUSE	Stops the playback and displays still images. ● You can also use the [ENTER] button.	Stops the slideshow and displays still images. ● You can also use the [ENTER] button.
■ STOP	STOP	Stops the playback and returns to the playback navigator. ● You can also use the [RETURN], [TOP MENU] or [MENU] button.	
REV ◀◀	REV	Pressing the button each time changes the search from Search −1 to Search −5. ● Pressing the [FWD] button changes the search to Search +1. ● Slow reverse cannot be performed.	−
FWD ▶▶	FWD	Pressing the button each time changes the search from Search +1 to Search +5. ● Pressing the [REV] button changes the search to Search −1. Pressing the button each time during pause will play the video in 4 different speeds of 1/16x, 1/8x, 1/4x and 1/2x.	−
NEXT ▶▶❙	NEXT	Displays the next folder.	Displays the next file.
PREVIOUS ❙◀◀	PREVIOUS	Displays the beginning of the folder.	Displays the previous file.
⌒	Skip	Moves the playback position forward for approx. 30 seconds. Pressing this button continuously will move the position ahead for the number of times the button is pressed.	−
⌣	Replay	Moves the playback position backward for approx. 7 seconds. Pressing this button continuously will move the position backward for the number of times the button is pressed.	−
∧	Selection key : UP	Displays the beginning of the file.	When paused, each press of the button rotates the image 90 degrees.
∨	Selection key : DOWN	Displays the next file.	
⟨	Selection key : LEFT	Pressing the button each time changes the search from Search −1 to Search −5. ● Pressing the [FWD] button changes the search to Search +1. ● Slow reverse cannot be performed.	Displays the previous file.
⟩	Selection key : RIGHT	Pressing the button each time changes the search from Search +1 to Search +5. ● Pressing the [REV] button changes the search to Search −1.	Displays the next file.
TOOL	TOOL	Changes the playback settings. (While the screen in step ❻ on page 15 is displayed.) CONTINUE PLAYBACK : Plays the video from the previously stopped position. PLAY FROM BEGINNING : Plays the video from the beginning of the file.	Changes the playback settings. (While the screen in step ❸ on page 17 is displayed.) ■ SLIDESHOW INTERVAL Sets the time to display one image (maximum approx. 2 MB). It may take some time to display depending on the image size. 10 SEC / 15 SEC / 20 SEC ■ SLIDESHOW EFFECTS Sets a fading effect when changing image display. ON : Fade in from black, fade out to black OFF : No fading effect. ■ CHANGE VIEW Sets the display format of the playback navigator. Thumbnail/List

Viewing Still Images Saved from High Definition Everio Camera

■ To playback the image immediately after saving in DVD

1. Remove the USB cable. (☞P12)
2. Turn off the power of this burner.
3. Connect to TV and power on this burner.
   ● Confirm that the power lamp on the burner is lighted in orange.
   For details on connections, refer to "Connecting to TV" (☞P9, 10).

<Example>
When all still images shot on a high definition Everio camera are saved in DVD.

1 *Insert a disc.*

2 *Select "PLAY IMAGE".*

1. SELECT
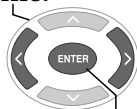
2. CONFIRM
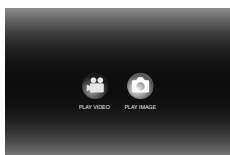
● The playback navigator appears.

3 *Select "EVERIO IMAGE".*

1. SELECT
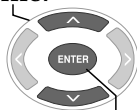
2. CONFIRM
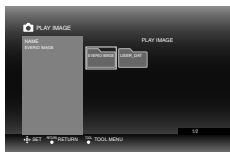
● If you had created a desired folder on a PC, select that folder name. The folder is displayed as "USER DAT" on the screen in step *3*. (☞P14)

CAUTION:

● Check the resolution setting if the image is not displayed. (☞P19)

4 *Select "NORMAL BACK-UP".*
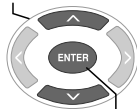
1. SELECT

2. CONFIRM
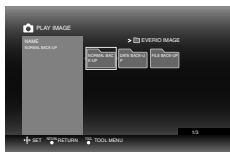
● Files will be sorted automatically to the created folders, depending on the items selected in the "CREATE DVD" function of the high definition Everio camera. (☞P14)

5 *Select the date saved in DVD.*
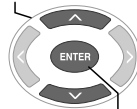
1. SELECT

2. CONFIRM

6 *Select the file to be played.*

1. SELECT
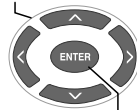
2. CONFIRM

● Playback starts.
● For details on playback operations, refer to "Buttons that can be used during playback" (☞P16).

NOTES:

● Only still images conforming to the Exif standard will be displayed in thumbnails. For any other still images, "?" is displayed and they may not be playable.
● It may take some time to display if the image file size is large or when there are many files.

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■ To playback the image immediately after saving in DVD

1. Remove the USB cable. (☞P12)
2. Turn off the power of this burner.
3. Connect to TV and power on this burner.
   ● Confirm that the power lamp on the burner is lighted in orange.
   For details on connections, refer to "Connecting to TV" (☞P9, 10).

CAUTION:
● Check the resolution setting if the image is not displayed. (☞P19)
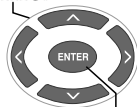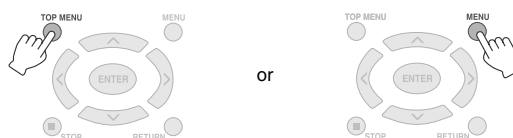
NOTE:
● A music CD cannot be played when a TV is connected.

① *Insert a disc.*

② *Play the video.*

● The video plays back or a menu screen appears.

③ *When the menu screen appears, select a menu item.*

1. SELECT

2. CONFIRM

Displaying menu screen during playback

or

Exiting menu screen
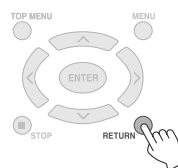
Buttons that can be used during playback

Button names		During DVD video playback
PLAY	PLAY	Pressing the button during pause or variable speed playback will play the video.
PAUSE	PAUSE	Pauses the playback.
STOP	STOP	Stops playback.
REV	REV	Pressing the button each time changes the search from Search −1 to Search −5. ● Pressing the [FWD] button changes the search to Search +1. ● Slow reverse cannot be performed.
FWD	FWD	Pressing the button each time changes the search from Search +1 to Search +5. ● Pressing the [REV] button changes the search to Search −1. Pressing the button each time during pause will play the video in 4 different speeds of 1/16x, 1/8x, 1/4x and 1/2x.
NEXT	NEXT	Moves to the next chapter.
PREVIOUS	PREVIOUS	Moves to the previous chapter.
	Skip	Moves the playback position forward for approx. 30 seconds. Pressing this button continuously will move the position ahead for the number of times the button is pressed.
	Replay	Moves the playback position backward for approx. 7 seconds. Pressing this button continuously will move the position backward for the number of times the button is pressed.
TOOL	TOOL	Changes the playback settings. (During playback) AUDIO LANGUAGE : Not available. SUBTITLE LANGUAGE : Not available. CHANGE ANGLE : Not available. CHANGE TITLE : Select the title and jump to that title. CHANGE CHAPTER : Select the chapter and jump to that chapter.

Viewing High Quality Images

You can change the video output resolution when the burner is connected to a progressive scan TV via an HDMI cable or component video cable.

① *Change output resolution during stop mode.*

```
OPEN/CLOSE        RESOLUTION
   ⏏

SET UP      TOOL      SCREEN
```

● Every press of the button changes the resolution as follows.

Connection via HDMI cable (However, the selections for resolution not supported by TV may not be displayed.)

```
→ AUTO ────→ 480p ────→ 1080i ────→ 720p ⌐
```

Connection via component video cable (HDMI cable is not connected)
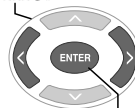
```
→ 480i ────→ 480p ────→ 1080i ────→ 720p ⌐
```

Connection via video cable
Set the resolution to "480i". Image cannot be displayed if other settings are being selected. Press the [RESOLUTION] button and set to "480i".

② *Select "YES".*

1. SELECT

```
      ∧
  ‹  ENTER  ›
      ∨
```

2. CONFIRM

CURRENT RESOLUTION : 480i
DO YOU WANT TO SAVE THE SETTINGS?

YES   NO

● If the image is not displayed on the TV after changing the resolution, do not operate the burner for 15 seconds. The resolution setting before the change is restored.

NOTES:
● When HDMI cable is connected, images are not output in analog.
● When "480i" is selected, images are output from both the VIDEO connector and the COMPONENT VIDEO OUT connectors.

CAUTION:
● "AUTO" will be selected automatically when the burner is connected via an HDMI cable to a TV not supporting the selected resolution.
● When the burner is connected to a TV via a component video cable and the output resolution is set to "1080i" or "720p", playback will stop if a digital copy protected (CSS) disc is played. (☞P24)

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Changing the Settings

Configures basic settings that determines the operation of the burner.

Menu Operation Procedures

<Example>
To change the "SELECT TV TYPE" of "VIDEOS" from
"16:9" to "4:3LB".

When connected to TV and power is on

❶ Display the "SETTINGS" screen.
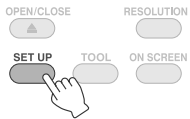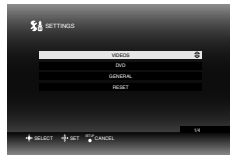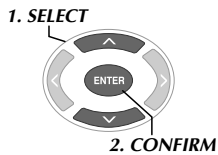
OPEN/CLOSE   RESOLUTION

SET UP   TOOL   ON SCREEN

❷ Select "VIDEOS".

1. SELECT

ENTER

2. CONFIRM

❸ Select "SELECT TV TYPE".

1. SELECT

ENTER

2. CONFIRM

❹ Select "4:3LB".

1. SELECT

ENTER

2. CONFIRM

❺ Select "SAVE".

1. SELECT

ENTER

2. CONFIRM

❻ Select "YES".

1. SELECT

ENTER

2. CONFIRM

❼ Exit the "SETTINGS" screen.

OPEN/CLOSE   RESOLUTION

SET UP   TOOL   ON SCREEN

20
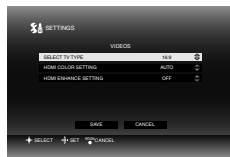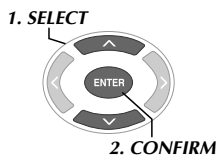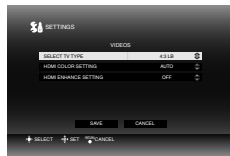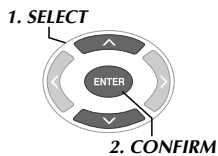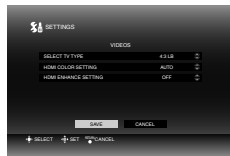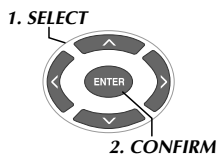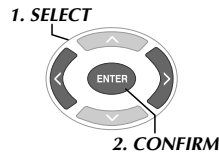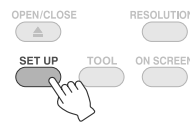
Setting Items And Contents

[____] is the default setting.

■ VIDEOS

SELECT TV TYPE	
Configure the settings according to the TV to be connected. (If the screen size setting of the TV is fixed, the screen size setting of the TV remains the same even if you change the setting on this burner.)	
16:9	When connected to a wide TV (16:9).
4:3LB	When connected to a 4:3 TV (16:9 images will appear with black bands on the top and bottom).
4:3PS	When connected to a 4:3 TV (16:9 images will appear with the left and right sides missing).
HDMI COLOR SETTING	
Sets the video format from the COMPONENT VIDEO OUT of the burner.	
AUTO	Normally selects this.
RGB	When images do not appear properly due to the specifications of the TV.
HDMI ENHANCE SETTING	
Set this when connected to a DVI device.	
OFF	Normally selects this.
ON	When connected to a DVI device and black-and-white images are not clear.

■ DVD

The following items will not take effect even if configured.

MENU LANGUAGE
AUDIO LANGUAGE
SUBTITLE

■ GENERAL

LANGUAGE	
Sets the language to be displayed on the screen such as the "SETTINGS" screen.	
日本語 / ENGLISH / FRANÇAIS / DEUTSCH / ITALIANO / NEDERLANDS / PORTUGUÊS / ESPAÑOL / 汉语 / 中文	Set the language. ("ENGLISH" is set as the default language.)
DATE DISPLAY STYLE	
Changes the date format.	
year.month.day	
month.day.year	Set the date format.
day.month.year	

■ RESET

Returns the settings to default.

Screen Display

Information during playback can be displayed on the screen.

During playback

OPEN/CLOSE   RESOLUTION

SET UP   TOOL   ON SCREEN
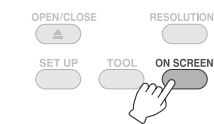
● Every press of the button changes the display mode.

Auto mode (During video/still images playback only)
Displays the playback status and playback time/ playback position for 3 seconds when there is a change in status.

Half mode
Displays the playback status and playback time/ playback position.

Full mode
Displays all information including file name.

Hide mode
Hides the information.

When playing video saved from a high definition Everio camera

File Date (Displays the date and time of recording of the first file in the folder.)

File Name

Audio Format

Playback Status

Playback Time/ Playback Position

Operation Guide
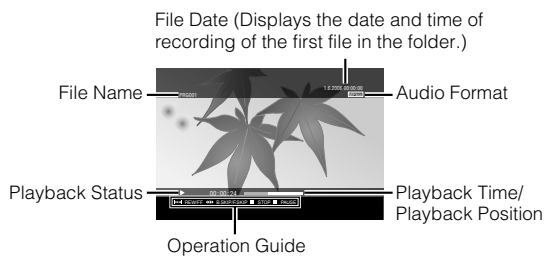
When playing still image saved from a high definition Everio camera

Folder Name   File Date

File Name

File Resolution

Playback Status

Operation Guide
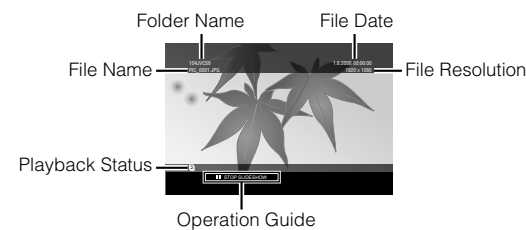
When playing DVD video saved from an Everio camera

Chapter Number

Title Number

Audio Format

Playback Status

Playback Time/ Playback Position

Operation Guide

Troubleshooting

Trouble	Cause/Action
General	
Cannot turn the power on.	● Make sure the AC adapter and power cord are connected properly.
The burner or AC adapter is hot.	● This is not a malfunction. ● If the burner is abnormally hot, remove the AC adapter and consult the dealer from which you purchased the burner.
After pressing the power button, it takes approximately 20 seconds before the burner becomes operable.	● This is not a malfunction.
Malfunction or error occurs.	● Turn the burner off, and then turn it back on again.
Saving	
The Everio camera is not recognized.	● Make sure the USB cable is connected properly. Install the projected end of the terminal to the burner and the other end to the Everio camera.
The PC is not recognized.	● Make sure the USB cable provided for the Everio camera is connected properly.
Cannot open the disc tray.	● A disc cannot be ejected by pressing the eject button if data is being written to the disc. Wait until writing finishes. ● If a disc cannot be ejected with the eject button because of a failure or a malfunction caused by, for example, the burner being dropped, insert a thin rod of about 10 cm long into the force eject hole to eject the disc. (☞P11)
Reading fails.	● Insert the disc with the label facing up. ● Make sure the disc tray is not dirty. ● Make sure the writing surface of the disc is not damaged. ● Make sure that special-shaped discs are not used. ● Any CD that does not comply with standards such as the CD-DA standard (copy-control CDs) cannot be played. ● For CD-R or CD-RW, make sure it is not recorded using the packet-write method.
Writing fails.	● Make sure an appropriate disc is being used. (☞P25) ● Use discs recommended for the burner. (☞P26) ● Make sure that a new disc is used for DVD-R. ● Insert the disc with the label facing up. ● Make sure the disc tray is not dirty. ● Make sure the writing surface of the disc is not damaged. ● Make sure that special-shaped discs are not used.
It is impossible to dub the DVD discs, which were written with this burner, on a HDD-DVD recorder.	● Connect the burner to the Everio camera, playback using "PLAY DVD" function of the camera, and dub the DVD discs with the DVD recorder. (Refer to the instruction manual of Everio.)
Writing/reading at maximum speed is not possible (when connected to PC).	● Make sure an appropriate disc is being used. (☞P25) ● Use discs recommended for the burner. (☞P26) ● Make sure a proper standard disc is being used. (Writing/reading at maximum speed may not possible if non-standard discs are used.)
Playback	
The remote control is not working.	● Remove the batteries, insert them again and operate the remote control. ● Replace with new batteries.
Unable to operate.	● Operation may be prohibited due to the disc or other conditions. ● If the burner does not work at all, turn off the power and turn it on again. (It may not work properly due to lightning strike or static electricity.)

Trouble	Cause/Action
No images on the TV.	● Is the video input displayed? Change to external output for the burner connected to a TV with video/audio input connectors. ● When the image is not displayed on the TV after pressing the [RESOLUTION] button, do not operate the burner for 15 seconds. The resolution setting before the change is restored. (☞P19) ● Check the resolution setting again. (☞P19)
Images are distorted during forward search or reverse search.	● Images may be distorted for sections where the playback speed changes. This is not a malfunction.
Commercial DVDs cannot be played when the burner is connected to PC.	● Play the disc of which the region number of the DVD video is "ALL" or "2".
Images added by PC cannot be played.	● Images added to the disc (multi-border disc) by PC cannot be played on this burner.
It takes some time to display the images during still image playback.	● The file size is too large or there are too many files. This is not a malfunction.
When changing from special playback to normal playback, or during slow playback, mosaic pattern (block noise) appears.	● This is not a malfunction.

Error Messages

Trouble	Cause/Action
UNREADABLE DISC	● A blank disc is inserted. ● Insert a disc that can be played on the burner. (☞P25)
DISC ERROR	● The disc may be dirty. Clean the disc and try again. ● The disc was not finalized after saving from a high definition Everio camera. Make sure to finalize the disc after saving. (For details, refer to the instruction manual of the Everio camera.)
CANNOT OPERATE NOW	● Stop the playback and operate again.
HDCP INCOMPATIBLE, CANNOT DISPLAY USE HDCP COMPATIBLE MONITOR	● Connect the burner to a HDCP compliant monitor.
DETECTED COPY GUARD CANNOT DISPLAY WITH 1080i/720p SET TO 480i OR 480p	● Make analog connection and set resolution to "480i" or "480p". (☞P19)
INCOMPATIBLE DATA	● The data format is not compatible. Confirm the data format. (☞P25) ● The disc was not finalized after saving from a high definition Everio camera. Make sure to finalize the disc after saving. (For details, refer to the instruction manual of the Everio camera.)
CANNOT PLAY BACK	● File data may be missing.

Specifications

General

■ Power Supply
DC12 V

■ Rated current
1.7 A

■ Dimensions (W × H × D)
171 × 56 × 262 mm (6-3/4" × 2-1/5" × 10-3/10")

■ Weight of main unit
Approx. 1.4 kg (3.1 lbs)
(excluding AC adapter and connection cables)

■ Operating Environment
Operating temperature : 0 ℃ to 40 ℃ (32 ℉ to 104 ℉)
Operating humidity : 35 % to 80 %
Storage temperature : −20 ℃ to 60 ℃ (−4 ℉ to 140 ℉)

■ Laser Power
For DVD
Wavelength : 653 to 663 nm
Output : 1.0 mW
For CD
Wavelength : 770 to 810 nm
Output : 0.4 mW

AC adapter (AP-V400U)

■ Power Supply
AC110 V to 240 V ∼, 50 Hz/60 Hz

■ Input capacity
1.5 A

■ Output
DC12 V ⎓, 4 A

■ Operating temperature
0 ℃ to 40 ℃ (32 ℉ to 104 ℉)

■ Dimensions (W × H × D)
52 × 31 × 120 mm (2" × 1-1/5" × 4-7/10")
(excluding power cord)

■ Weight
Approx. 250 g (0.6 lbs)

Remote control (RM-V41U)

■ Type
DC 3 V (CR2025 button battery)

■ Battery life
Approx. 1 year (depending on the frequency of use)

■ Operating distance
Approx. 5 m (face up)

■ Operating temperature
0 ℃ to 40 ℃ (32 ℉ to 104 ℉)

■ Dimensions (W × H × D)
42 × 12 × 100 mm (1-7/10" × 1/2" × 4")

■ Weight
Approx. 32 g (0.1 lbs)
(including button battery)

Recommended discs

■ DVD-R
JVC, TDK, Verbatim, SONY

■ DVD-R DL[*1]
JVC, Verbatim

■ DVD-RW
JVC

● Optimal performance of the burner may not be possible depending on the disc used. Using discs of manufacturers for which compatibility has been confirmed is recommended.

● Only 12 cm discs can be used with this burner.

*1 DVD-R DL discs can be used when the burner is connected to a high definition Everio camera or a PC.

CAUTION:
● When a DVD-R disc is finalized, additional recordings to the disc are not possible. In addition, the disc cannot be formatted (initialized).

● After finalizing a DVD-RW disc, additional recordings to the disc are possible by formatting (initializing) the disc. However, data (video/audio) saved will be deleted.

Playback

■ Compatible discs
DVD-R, DVD-R DL, DVD-RW

■ Data format (extension)
● DVD data discs that are created using high definition Everio camera
● DVD data discs that are created using Everio camera
● DVD data discs that are written with data taken by high definition Everio camera and edited using the provided editing software.
(When a disc stops during playback and block noise occurs, disable the SVRT function in the editing software.)
● Following are the file extensions recognized by this burner. (It is not guaranteed that the following file extensions can be played back.)
 ● When connected to an Everio camera: TOD, JPG
 ● When connected to a PC: MOD, TPD, JPG
 ● Others:
 MPG, MPEG, MPE, M2P, M2T, M2TS, TS, JPEG, JPE
 When playing files created on a PC, pressing the [▶] button after searching may cause the playback position to deviate.

■ Video output
1.0 V 75 Ω (Pin jack)

■ Audio output
2.0 Vrms 1 kΩ (Pin jack)

■ Component video output

Y p-p : 1.0 V 75 Ω (Pin jack)

C_B/C_R, P_B/P_R p-p : 0.7 V 75 Ω (Pin jack)

■ HDMI output

19-pin HDCP compliant

Video :480p / 1080i / 720p
(Compatibility with DVI-D is not guaranteed)

Audio : 2CH PCM/Bit stream

CAUTION:

● Discs other than those stated above, and commercially available DVD videos cannot be played back properly.

When connected to an Everio camera

■ Interface

USB2.0

■ Interface cable

USB cable (Mini type A – Mini type B)

■ Compatible discs for writing (8 cm discs cannot be used)

Everio : DVD-R, DVD-RW (6x DVD-RW discs cannot be used)

High definition Everio : DVD-R, DVD-R DL, DVD-RW

■ Recording format

Everio : DVD video (video only)

High definition Everio : Data DVD (video, still image)

■ Recording time

Everio :

Approx. 30 minutes (including time taken for finalization)

● Approx. 90 minutes of video recorded in fine mode on a 4.7 GB disc. (Varies depending on conditions such as number of titles.)

High definition Everio :

Approx. 35 minutes (including time taken for finalization)

● Approx. 40 minutes of video recorded in full HD mode on a 8.5 GB DVD-R DL disc. (Varies depending on conditions such as number of titles.)

● GZ-MC100, GZ-MC200, GZ-MC500, GZ-MG40, GZ-MG50, GZ-MG70 cannot be used.

When connected to a PC

■ Interface

USB2.0, USB1.1 [1]

■ Interface cable

USB cable (USB cable provided for the Everio camera can also be used.)

■ Supported operating systems

Windows XP Home Edition, Windows XP Professional (Macintosh is not supported.)

■ Data buffer capacity

2 MB

■ Data transfer rate (for USB2.0)

Writing

DVD-R : Maximum 8x

DVD-R DL : Maximum 4x

DVD-RW : Maximum 4x

Reading

DVD-R : Maximum 12x

DVD-RW : Maximum 12x

DVD-ROM : Maximum 5x

DVD-R DL : Maximum 8x

CD-R : Maximum 10x [2]

CD-RW : Maximum 10x [2]

CD-ROM : Maximum 10x [3]

■ Compatible discs (8 cm discs cannot be used)

Writing :

DVD-R, DVD-R DL, DVD-RW

Reading :

DVD-R, DVD-R DL, DVD-RW, DVD-ROM, DVD video, CD-ROM, CD-DA [4], CD Extra, Video CD, Mixed CD, CD-R, CD-RW

■ Supported software

CyberLink PowerCinema NE for Everio/ PowerProducer 3 NE (Provided for Everio camera)

CyberLink Power2Go 5.5 Lite (provided)

[1] If you use USB1.1 cable, it will take approximately 3 hours to write one DVD.

[2] Any CD recorded using the packet-write method cannot be played.

[3] Operation is not guaranteed for any CD not compliant with the CD-DA standard (copy control CD).

[4] It may not be possible to read the audio files depending on the music CDs (CD-DA). In this case, make use of applications such as Windows Media Player.

Memo

JVC